



PENDING CLAIMS

Clean Versions of Pending Claims under 37 C.F.R. 1.121(c)(3)

9. A polypeptide having the amino acid sequence as set forth in SEQ ID NO. 5 produced by a process comprising:

(a) culturing a host cell containing a vector comprising a nucleic acid having a nucleotide sequence

(i) as set forth in SEQ ID NO. 4;

(ii) of the DNA insert in ATCC Deposit No. PTA-1775, wherein the DNA insert encodes the polypeptide as set forth in SEQ ID NO: 5; or

(iii) that encodes a polypeptide having the amino acid sequence as set forth in SEQ ID NO. 5;

under conditions suitable to express the polypeptide; and optionally

(b) isolating the polypeptide from the culture.

13. An isolated polypeptide comprising:

(a) the amino acid sequence as set forth in SEQ ID NO: 5; or

(b) the amino acid sequence encoded by the DNA insert in ATCC Deposit No. PTA-1755, wherein the DNA insert encodes the polypeptide as set forth in SEQ ID NO: 5.

14. An isolated polypeptide comprising:

(a) the amino acid sequence as set forth in SEQ ID NO: 6, optionally further comprising an amino-terminal methionine;

(b) the amino acid sequence for an ortholog of SEQ ID NO: 5; or

(c) a fragment of the amino acid sequence set forth in SEQ ID NO: 5 comprising at least about 25 amino acid residues, wherein the fragment upon injection into an animal produces an antibody that binds to the polypeptide set forth in SEQ ID NO: 5, and provided that the fragment does not further comprise the amino acid sequence of SEQ ID NO: 22.

15. An isolated polypeptide comprising the amino acid sequence as set forth in SEQ ID NO: 5 but with at least one modification that is a C-terminal truncation or an N-terminal truncation,

provided that the polypeptide does not further comprise the amino acid sequence of SEQ ID NO: 22, wherein the polypeptide upon injection into an animal produces an antibody that binds to the polypeptide set forth in SEQ ID NO: 5.

16. An isolated polypeptide encoded by a nucleic acid molecule comprising:

- (a) the nucleotide sequence as set forth in SEQ ID NO: 4;
- (b) the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-1755, wherein the DNA insert encodes the polypeptide as set forth in SEQ ID NO: 5; or
- (c) a nucleotide sequence encoding the polypeptide as set forth in SEQ ID NO: 5;

wherein the polypeptide upon injection into an animal produces an antibody that binds to the polypeptide set forth in SEQ ID NO: 5.

46. A fusion polypeptide comprising the polypeptide of any of Claims 13, 14, or 15 fused to a heterologous amino acid sequence.

47. The fusion polypeptide of Claim 46, wherein the heterologous amino acid sequence is an IgG constant domain or fragment thereof.

57. A polypeptide produced by a process comprising:

- (a) culturing a host cell containing a vector comprising a nucleic acid molecule having a nucleotide sequence of a region of the nucleotide sequence of SEQ ID NO: 4 or a region of the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-1755 wherein the DNA insert encodes the polypeptide as set forth in SEQ ID NO: 5, but does not further comprise the amino acid sequence of SEQ ID NO: 22, wherein the nucleic acid molecule encodes the polypeptide which is produced, the polypeptide is a fragment of at least about 25 amino acid residues, and wherein the polypeptide upon injection into an animal produces an antibody that binds to the polypeptide as set forth in SEQ ID NO: 5, under suitable conditions to express the polypeptide, and optionally
- (b) isolating the polypeptide from the culture.

58. A polypeptide produced by a process comprising:

- (a) culturing a host cell containing a vector comprising a nucleic acid molecule having a

nucleotide sequence encoding the polypeptide which is produced, the polypeptide has the amino acid sequence as set forth in SEQ ID NO: 5 but with at least one modification that is a C-terminal truncation or an N-terminal truncation, provided that the polypeptide does not further comprise the amino acid sequence of SEQ ID NO: 22, and wherein the polypeptide upon injection into an animal produces an antibody that binds to the polypeptide set forth in SEQ ID NO: 5, under suitable conditions to express the polypeptide, and optionally

(b) isolating the polypeptide from the culture.

59. The polypeptide of any of Claims 9, 57, or 58, wherein the host cell is a eukaryotic cell.

60. The polypeptide of any of Claims 9, 57, or 58, wherein the host cell is a prokaryotic cell.

61. An isolated polypeptide encoded by a nucleic acid molecule comprising a nucleotide sequence of a region of the nucleotide sequence of SEQ ID NO: 4 or a region of the nucleotide sequence of the DNA insert in ATCC Deposit No. PTA-1755 wherein the DNA insert encodes the polypeptide as set forth in SEQ ID NO: 5, but does not further comprise the amino acid sequence of SEQ ID NO: 22, wherein the polypeptide is a fragment of at least about 25 amino acid residues, and wherein the polypeptide upon injection into an animal produces an antibody that binds to the polypeptide as set forth in SEQ ID NO: 5.

62. An isolated polypeptide encoded by a nucleic acid molecule having a nucleotide sequence encoding a polypeptide having the amino acid sequence as set forth in SEQ ID NO: 5 but with at least one modification that is a C-terminal truncation or an N-terminal truncation, provided that the polypeptide does not further comprise the amino acid sequence of SEQ ID NO: 22, and wherein the polypeptide upon injection into an animal produces an antibody that binds to the polypeptide set forth in SEQ ID NO: 5.